الصف السادس الابتدائي ٢٠٢٤

مراجعة + بنك اسئلة

المتميز

أ/ محمود سعيد

ELMotamyez Questions Bank

ICT

October Revision

By

Mrs . Amira Ahmed

Cartoon Science

6 الصف السادس

ملحق الإجابات بالداخل

نسخة مجانية

El.Motamyez.School

يمكنكم الحصول على المذكرات والاختبارات من خلال مسح رمز الـ QR Code
أو من خلال صفحة "المتميز - أ/ محمود سعيد".

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Lesson 02 Computer Network Devices

Networks : A group of devices or things that are connected to each other for a common purpose.

Modem : A device that connects LAN to the internet.

- It converts the signal from ISP into a digital signal that can be read by devices.

LAN = Local Area Network **ISP** = Internet Service Provider

Router : It works as a gateway (connect computers to the ISP) .

- It connects a modem to different networks.

Switches : Switches are intelligent devices.

- Switches make connections easier and faster.
- They can send data to a specific device over a network.

Making Connections

There are two main ways to connect computers to a network:

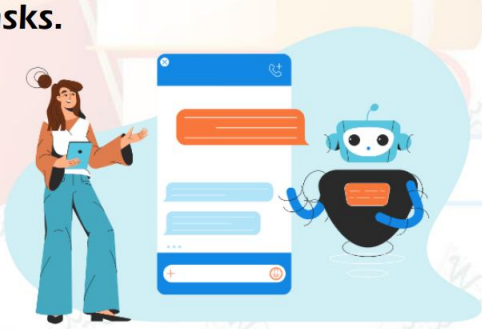
Wired Networks
They use physical wiring (cables) which are plugged into ports on devices.

Wireless Networks
They connect devices without wiring through wireless or Wi-Fi.

Artificial Intelligence (AI)

They are computer applications that perform complex tasks.

AI importance:



❶ AI simulates the human's thinking and performance, such as the ability to learn and reason.

❷ AI works to imitate sounds when provided with the tone of voice of an actual human being.

How AI works:

❶ We provide these applications with Information, knowledge and answers to all possible questions.

❷ The machine can give answers to the data provided, such as:

a. writing an article on a topic.

b. Inquiring about historical events and their sequence.

Lesson 03 Technology and artificial intelligence

Augmented reality (AR)

- AR combines a real world with a virtual world by adding images using computer.
- AR will show a 3-D model of what looks like the real world.
- To experience AR, we use the camera of a smartphone or a tablet.

For example In a math class

- Students point their smartphone camera at a flat surface.
- Students project a 3-D image for a cube or cylinder onto the surface, as if the figure is in front of them.

Virtual reality (VR)

VR is a simulated 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.

experience VR, users often wear a VR headset that blocks out the real world and provides 360-degree views that immerse the user in another world.

For example :

- To experience VR, users often wear a VR headset that blocks out the real world and provides 360-degree views that immerse the user in another world.
- VR can take you to a museum thousands of miles away, or to a historical site hundreds of years ago

Artificial intelligence (AI)

AI is the ability of a machine such, as a computer, to think and learn.

- A computer learns by analyzing provided examples.

people of determination.

- Futuristic technologies can also improve the lives of people of determination.

For example :

❶ A person with a visual impairment can use AR to see their family members up close.

❷ Disabled individuals can use virtual assistants powered by AI to accomplish everyday tasks, such as
A. making phone calls
B. navigating computer using their voice or sign language.

Lesson 04 Evaluating Cutting-edge technology

Cutting-edge technology

is the latest and the most advanced version of a service or product.

Reliable Cutting-edge technology

- Artificial Intelligence AI
- Augmented Reality AR
- Virtual Reality VR

Assistive technology

- It improves lives and inclusion of people of determination in society.
- **Assistive technology** helps people of determination in many ways such as:

❶ **Smart gloves**
Used by: deaf people
It turns: Their signs to spoken or text output in real
❷ **Hearing aids**
❸ **Screen magnification software**
Used by: Visually impaired people
❹ **Scanning and reading machine**
Used by: Visually impaired people
❺ **Programs turns speech to text or text to spee**

User Experiences

It describes

- How to use the product
- How to interact with the product
- How to evaluate the product

How to Evaluate the Product?

- Is product accessible for people for determination?
- Are the company and its products trustworthy?
- Does this product meet your need?
- If there is an issue, can I find a solution?
- Is it easy to use? Is it practical?
- Does this product improve my life?

- User experience is broken into smaller areas.
- User experience could be positive or negative.
- User experience helps in developing of products and services.

Lesson 05 Digital research skills

- You can use keyboard shortcut commands (copy – cut – paste) in word processing.

digital search tools

❶ Search engines :

- They help people to search internet websites using key words and phrases.
- They are user-friendly, very fast, and give many results.

❷ Databases :

- They are collections of information that stored in a computer and can be accessed, for free so it is a good place to search information.

Examples:

- Information stored in the computer of school.
- Journals, newspapers, and reference books in school library.
- EKB (general database): covers many subjects and its results will be credible and accurate.

❸ Library catalogs :

- It is a database which includes all the items owned by a library.
- It includes recently published books and e-books.

Examples:

The catalog of the Library of Alexandria (https://www.bibalex.org)

How to conduct a database search?

❶ use a keyword search. ❷ Review the results

❸ You can limit a search range by using fields like

a. Author b. journal title c. up-to-date.

❹ You must ensure the content you select is credible and accurate.

Lesson 07 Operating system

Operating system (OS)

It is the software that manages a computer's functions such as **memory**, **drives**, **printers**, and **other devices**.

Importance:

1. OS runs a computer's **software** and **hardware**.
2. OS allows a user to communicate with the computer easily.
3. OS includes accessible devices such as screen readers and magnifiers.

Examples:

1. **Computer operating systems**

- **Microsoft Windows** — run on most computers worldwide
- **macOS** — runs on Apple computers.

2. **Mobile operating systems**

- **Android** — uses open-source Software
- **IOS**
  - used on the iPhone and iPad.
  - Closed-source operating system.

Notes:

- Most computers come pre-loaded with an operating system.
- Open-source Software: means a person can change and read the programming code.
- Closed-source Software: it can't be seen or changed by the public.
- Both Android and iOS perform the same basic functions, such as messaging, web access, video chat and touch function.

Cutting-edge operating systems

They are operating systems that power the cutting-edge technologies.

Examples:

The Robot Operating System (ROS): (Open-source software)

Operating systems powering self-driving cars

Programming languages

They are Instructions to a computer are given in code.

Programming languages properties

They are Open sources
Anyone can **see, modify** or **distribute** the code.

They share similarities
If you learn one, it is easier to learn others.

They are developed
They are developed from a simple machine language (binary) to high-level human-like languages

Hyper Text Markup Language (HTML)

<u>Programmers use HTML to:</u>

❶ create web pages

❷ add text, links, audios and videos to web pages.

- HTML is easy to learn and use.
- It is compatible with all the major web browsers

October Questions Bank المتميز

Question 01 choose the correct Answer

1. ..... networks connect devices without wiring.
   a) Complex b) wiring c) Wireless
2. If the product is practical and meets customer needs, the user experience will be .....
   a) Positive b) negative c) neutral
3. ..... performs complex tasks that simulate the thinking and performance of the human element.
   a) VR b) AI c) AR
4. The latest and most advanced version of a service or product is called ..... technology.
   a) assistive b) cutting-edge c) virtual
5. Wired networks use physical wiring and cables which are plugged into ..... on devices.
   a) ports b) modem c) routers
6. Visually impaired people can use ..... to see their family members up close.
   a) Artificial intelligence b) Augmented Reality c) hearing aids
7. The most popular operating system for mobile worldwide is .....
   a) Windows b) Android c) Apple iOS
8. ..... is a simulated 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.
   a) Virtual reality b) artificial intelligence c) assistive technology
9. The abbreviation of Artificial intelligence is .....
   a) ALT b) AR c) AI
10. Most computers come pre-loaded with a/an .....
    a) operating system b) Windows explorer c) e-readers
11. The ..... deals with governments, technology universities, to provide services and access to places of those organizations
    a) I-Stem platform b) Google Chrome c) EKB platform

12 The EKB results are credible and .....

a inaccurate b narrow c accurate

13 ..... are devices that can be connected to the internet.

a Desktop computers b Laptops c a and b

14 ..... are some of the most used word processing commands.

a Copy b Paste c a and b

15 This can be done through a smartphone camera or a tablet and will show a ..... of what looks like the real world.

a 3-D model b 2-D model c 4-D model

16 Smart gloves that empower deaf people to translate their signs in real time to spoken or text output considered .....

a augmented reality b cutting-edge technology c assistive technology

17 ..... is used to unlock your phone with facial recognition.

a AI b AR c VR

18 ..... refers to computer applications that perform complex tasks, simulating human thinking and behavior

a Artificial intelligence b Holograms c Switches

19 Augmented reality can be done through a .....

a tablet b computer c hardware

20 ..... is a virtual 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.

a AI b AR c VR

21 A/An ..... help disabled individuals through using virtual assistants to accomplish everyday tasks.

a augmented reality b virtual reality c artificial intelligence

22 ..... combines the real world with a virtual world by adding images using computers.

a Augmented reality b VR c Artificial intelligence

23 ..... helps people of determination, for example, screen magnification software and hearing aids.

a Augmented reality b Cutting-edge technology c Assistive technology

24 The ..... is one of the platforms that provides counseling and employment opportunities for people of determination.
a facebook b I-Stem c Ekb

25 ..... describes how people use the product and interact with it, and how they evaluate their experiences.
a User experiences b Meeting needs c Both of them

26 Mr. Sawhney has been able to create applications that convert ..... into audio frequencies.
a sounds b writings c graphs

27 ..... can help people to search internet websites based on the keyword; and phrases.
a Search engines b Databases c Library catalogs

28 ..... is an operating system used on the iPhone and iPad.
a Android b Apple iOS c Linux

29 You can search for information from magazines and newspapers through the .....
a search engines b databases c library catalogs

30 The most popular operating system for computers worldwide is .....
a Android b macOS c Windows

31 A ..... is a database which includes all the items owned by a library.
a search engine b database c library catalog

32 ..... computers run on macOS.
a Apple b Windows c Android

33 ..... converts the signal from the internet service provider (ISP) into a digital signal.
a Port b Modem c Router

34 ..... uses open-source software.
a Android b Apple iOS c Windows

35 ..... is the software that manages a computer's functions.
a programming languages b operating system c Excel

36 ..... are group of people or things that are connected to each other.
a modems b networks c routers

37 You can use ..... to search on the internet using keywords and phrases.

a search engines b programing languages c books

38 ..... is a device that connects a local area network (LAN) to the internet.

a Artificial intelligence b Modem c Server

39 EKB is a ..... source of information

a Credible b unreliable c biased

40 ..... empower deaf people to translate their signs to spoken or text output.

a Hearing aids b smart glasses c Smart gloves

41 ..... technology helps people of determination with tasks they find challenging.

a assistive b cutting edge c virtual

42 ..... runs a computer's software and hardware.

a Operating system b CPU c Hardware

43 Facial recognition is a feature used to unlock your phone using .....

a Artificial intelligence b Virtual reality c Augmented reality

44 Mr. Kartik Sawhney is a/an ..... at the National Geographic Organization

a ecologist b biologist c explorer

45 ..... describe how people interact with a product, and how they evaluate their experiences.

a Futuristic technology b user experiences c virtual reality

46 Wired networks connect devices using .....

a Wi-Fi b wireless c cables

47 Complicated and hard-to-use products result in ..... user experiences.

a Positive b negative c neutral

48 ..... helps students become active participants in learning and makes learning more memorable.

a AI b AR c VR

49 In the classroom, ... can take you to a world where insects and atoms are bigger than you, so that you can study them closely

a AI b AR c VR

50 Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of .....

a augmented reality b cutting-edge technology c assistive technology

51 ..... categories are ways of technology evaluation.

a Accessible b Desirable c a and b

52 A library catalog is a/an ..... which includes all items owned by the library.

a heading b engine c database

53 The ..... is an example of a general database which covers many subjects.

a Facebook b Twitter c EKB

54 A/An ..... is the software that manages computer's functions.

a operating system b Windows Explorer c Google Chrome

55 ..... to instructions to a computer that are given in code.

a ROS b Programming Language c Operating system

56 ..... means a person can change and read the programming code.

a Open-source software b Closed-source software c both a and b

57 ..... are collections of information which are typically stored in a computer, system and can be accessed, for free through a school or library.

a Search engines b Database c Library catalogs

58 ..... converts the signal from the internet service provider (ISP) into a digital signal.

a Modem b Router c switch

59 ..... can imitate sounds when provided with the tone of voice of an actual human being.

a Augmented reality b artificial intelligence c Switches

60 To experience virtual reality, users often wear .....

a 3D glasses b VR headset c AR headset

61 ..... are collections of information which are typically stored in a computer system.

a Search results b Databases c software

62 ..... is a database which includes all the items owned by a library.

a EKB b Digital library c Library catalogs

63 ..... sends data to a specific device over a network.

a Modern b Switch c Server

64 A ..... is a device that connects a local area network (LAN) to the internet

a modem b laptop c Switches

65 ..... software means a person can change and read the programming code.

a open-source b closed-source c both of them

66 Screen magnification software, hearing aids, and programs that turn speech to text and text to speech are examples of .....

a augmented reality b cutting-edge technology c assistive technology

Question 02 put (√) or (×)

1. The similarities between programming languages make them easy to learn. ( )
2. HTML isn't compatible with all the major web browsers . ( )
3. Operating system runs a computer's software and hardware . ( )
4. Instructions to a computer are given in the form of code . ( )
5. A switch is a device that connects a local area network to the internet. ( )
6. A database is a good place to search for information from journals, newspapers . ( )
7. VR works to imitate sounds when provided with the tone of voice of an actual human being. ( )
8. All digital search tools give similar results . ( )
9. User experience is always positive . ( )
10. Switches help to make connections easier and faster. ( )
11. If the product is pleasant to look at and interact with, this make the user experience negative ( )
12. Wired networks use physical cables which are plugged into ports . ( )

13. We can connect devices to a network without wiring ( )
14. Mobile devices have mobile operating systems. ( )
15. Artificial intelligence (AI) is the ability of the computer to think and learn. ( )
16. The most popular mobile OSS are Android and Apple iOS. ( )
17. An AR app shows you how new furniture will look in your house. ( )
18. Android runs on mac devices. ( )
19. Cutting-edge technology is the latest and most advanced version of a service or product. ( )
20. There is only one way to get useful search results and to narrow your search you can. ( )
21. Meeting needs improve someone's independence and consquently inclusion in society. ( )
22. Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of assistive technology. ( )
23. Search engine is a good place to search for information from magazines, and newspapers. ( )
24. Futuristic technologies cannot improve the lives of people of determination. ( )
25. Operating system is used for managing computer's functions. ( )
26. Using windows helps students become active participants in learning and makes learning more memorable. ( )
27. Apple computers run on windows operating system. ( )
28. It is not important to credit the source of information . ( )
29. Apple computers run on macOS. ( )
30. Credibility and accessibility are factors that affect user experiences . ( )
31. HTML is commonly chosen for website creation. ( )
32. Smart gloves are a type of assistive technology. ( )

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33. switches are intelligent devices. ( )
34. A library catalog is a database which includes all the items owned by a library. ( )
35. Switch is a device that converts the signal from ISP into a digital signal . ( )
36. Wireless networks use physical wiring and cables which are plugged into ports on devices. ( )
37. AR, VR and AI are considered futuristic technologies even though they are already being used today . ( )
38. Most computers come pre-loaded with an operating system ( )
39. Virtual reality allows you to explore museums thousands of miles away. ( )
40. Artificial intelligence can imitate sounds of people ( )
41. User experience describes how people use a product and evaluate their experiences. . ( )
42. Microsoft Windows runs the most computers worldwide. ( )
43. You can limit your search to get up-to-date results from a database. ( )
44. Databases are collections of information which are typically stored in a computer system. ( )
45. When doing research via internet, use your evaluation skills to ensure the content you select is credible and accurate. ( )
46. An operating system includes accessible devices such as printer scanner. ( )
47. Both Android and iOS perform the same basic functions . ( )
48. Windows is open-source software for building robot applications. ( )
49. Apple computers run on windows . ( )
50. modem send data to a specific device on the network. ( )
51. Closed-source software means the code can be read and changed by anyone. ( )
52. Futuristic technologies can improve the lives of People of determination ( )

53. AR is used to unlock your phone with facial recognition ( )
54. The EKB is an inaccurate source of information . ( )
55. When you search online, you should ensure that the results are accurate and credible ( )
56. macOS is on most computers worldwide ( )
57. Disabled individuals can use virtual assistants to make phone calls. ( )
58. Computer networks connect computers with each other, to share important information and data. ( )
59. Devices can be connected without wiring through Wi-Fi. ( )
60. Wireless networks use physical wiring and cables which are plugged into holes on devices. ( )
61. Cutting-edge technology helps people of determination. ( )
62. From the uses of AR, someone with a visual impaired can see their family members up close. ( )
63. VR headset blocks out the real world and provides views that immerse the user in another world. ( )
64. AR, VR and AI are considered cutting-edge technologies ( )
65. Search engines are user-friendly, very fast, and often give many results. ( )

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

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ⓐ Modern ⓑ Switch ⓒ Server

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ⓐ open-source ⓑ closed-source ⓒ both of them

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11. If the product is pleasant to look at and interact with, this make the user experience negative ✗
12. Wired networks use physical cables which are plugged into ports . ✓

® يرجى مراعاة حقوق صاحب المحتوى عند النشر.

13. We can connect devices to a network without wiring ✓
14. Mobile devices have mobile operating systems. ✓
15. Artificial intelligence (AI) is the ability of the computer to think and learn. ✓
16. The most popular mobile OSS are Android and Apple iOS. ✓
17. An AR app shows you how new furniture will look in your house. ✓
18. Android runs on mac devices. ✗
19. Cutting-edge technology is the latest and most advanced version of a service or product. ✓
20. There is only one way to get useful search results and to narrow your search you can. ✗
21. Meeting needs improve someone's independence and consquently inclusion in society. ✓
22. Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of assistive technology. ✗
23. Search engine is a good place to search for information from magazines, and newspapers. ✗
24. Futuristic technologies cannot improve the lives of people of determination. ✗
25. Operating system is used for managing computer's functions. ✓
26. Using windows helps students become active participants in learning and makes learning more memorable. ✗
27. Apple computers run on windows operating system. ✗
28. It is not important to credit the source of information . ✗
29. Apple computers run on macOS. ✓
30. Credibility and accessibility are factors that affect user experiences . ✓
31. HTML is commonly chosen for website creation. ✓
32. Smart gloves are a type of assistive technology. ✓

33. switches are intelligent devices. ✓
34. A library catalog is a database which includes all the items owned by a library. ✓
35. Switch is a device that converts the signal from ISP into a digital signal . ✗
36. Wireless networks use physical wiring and cables which are plugged into ports on devices. ✗
37. AR, VR and AI are considered futuristic technologies even though they are already being used today . ✓
38. Most computers come pre-loaded with an operating system ✓
39. Virtual reality allows you to explore museums thousands of miles away. ✓
40. Artificial intelligence can imitate sounds of people ✓
41. User experience describes how people use a product and evaluate their experiences. . ✓
42. Microsoft Windows runs the most computers worldwide. ✓
43. You can limit your search to get up-to-date results from a database. ✓
44. Databases are collections of information which are typically stored in a computer system. ✓
45. When doing research via internet, use your evaluation skills to ensure the content you select is credible and accurate. ✓
46. An operating system includes accessible devices such as printer scanner. ✗
47. Both Android and iOS perform the same basic functions . ✓
48. Windows is open-source software for building robot applications. ✗
49. Apple computers run on windows . ✗
50. modem send data to a specific device on the network. ✗
51. Closed-source software means the code can be read and changed by anyone. ✗
52. Futuristic technologies can improve the lives of People of determination ✓

53. AR is used to unlock your phone with facial recognition ✗
54. The EKB is an inaccurate source of information . ✗
55. When you search online, you should ensure that the results are accurate and credible ✓
56. macOS is on most computers worldwide ✗
57. Disabled individuals can use virtual assistants to make phone calls. ✓
58. Computer networks connect computers with each other, to share important information and data. ✓
59. Devices can be connected without wiring through Wi-Fi. ✓
60. Wireless networks use physical wiring and cables which are plugged into holes on devices. ✗
61. Cutting-edge technology helps people of determination. ✓
62. From the uses of AR, someone with a visual impaired can see their family members up close. ✓
63. VR headset blocks out the real world and provides views that immerse the user in another world. ✓
64. AR, VR and AI are considered cutting-edge technologies ✓
65. Search engines are user-friendly, very fast, and often give many results. ✓

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم